

# Optical Switch Having an Optically Addressed MEMS Array

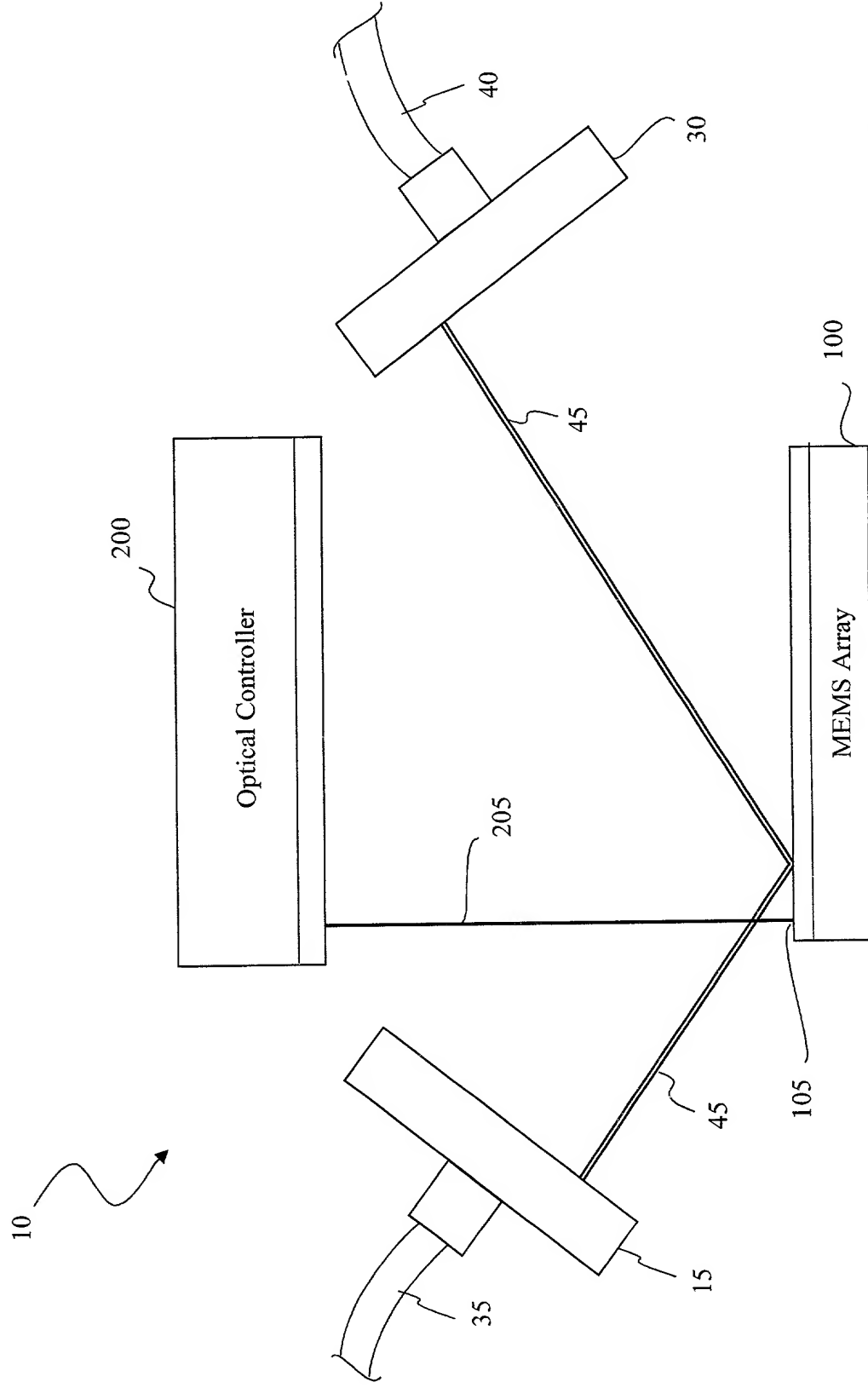


FIG. 1

# Control Beam Striking A Sensor on a MEMS Array

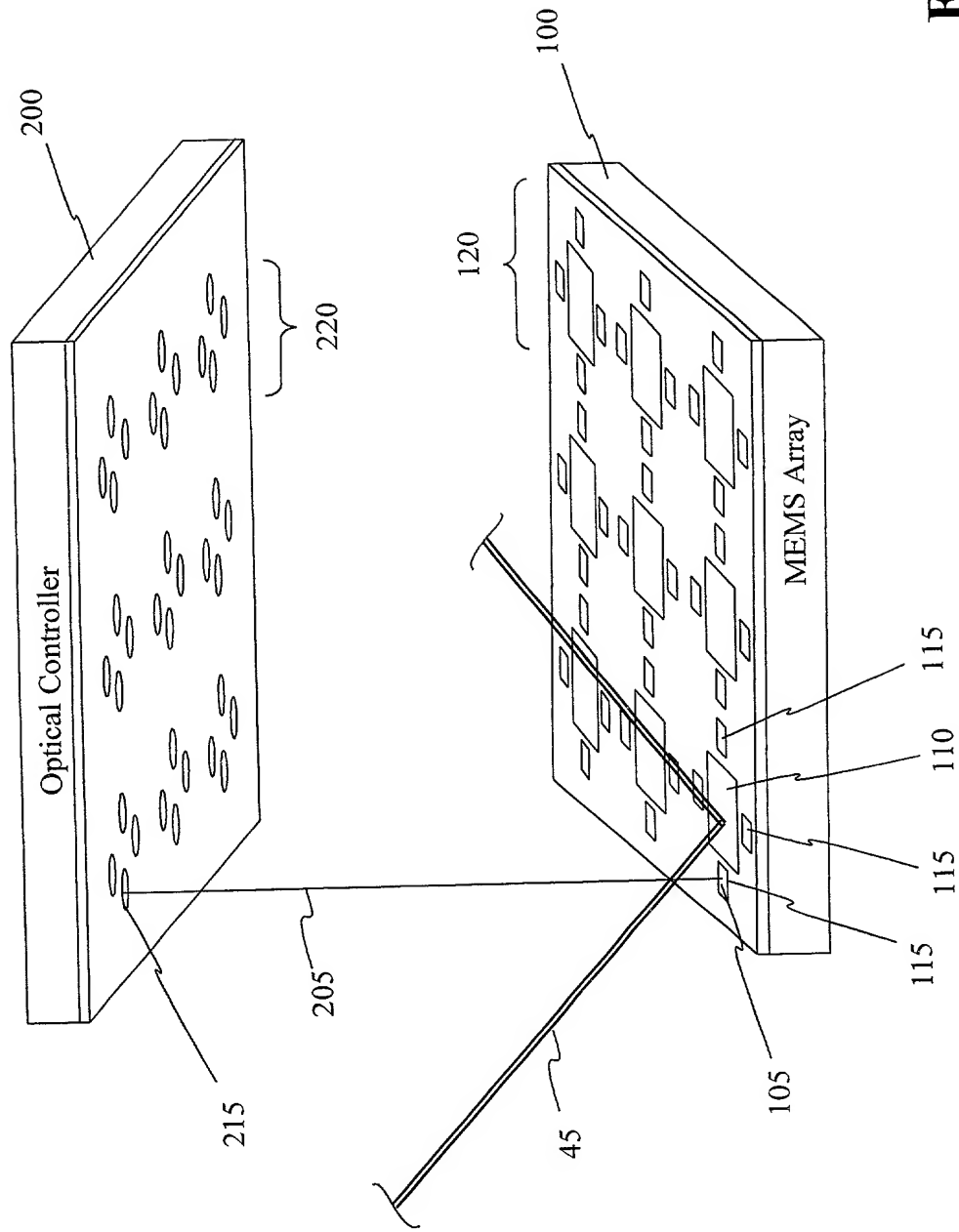
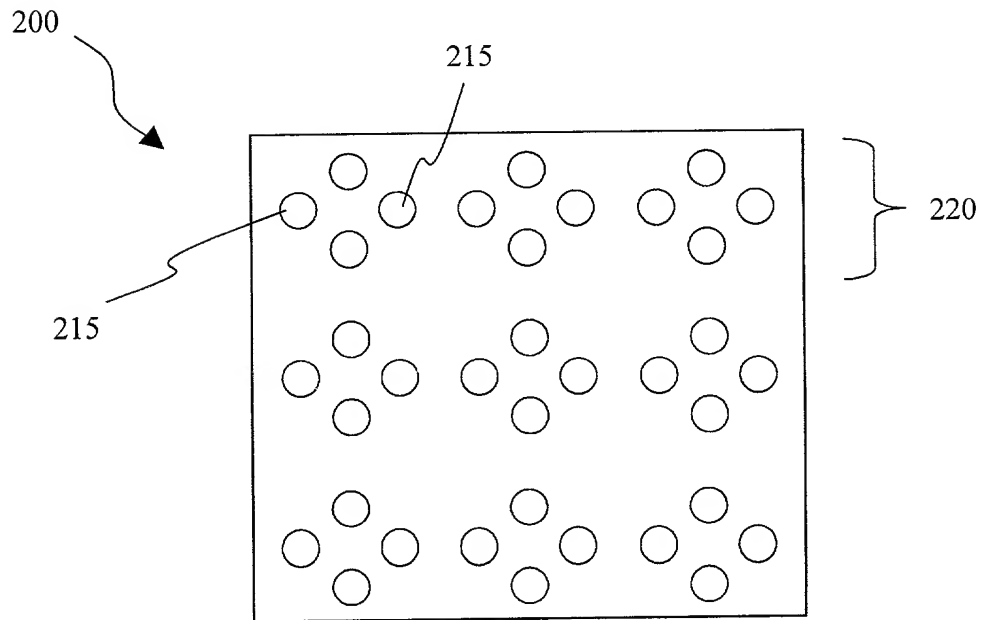
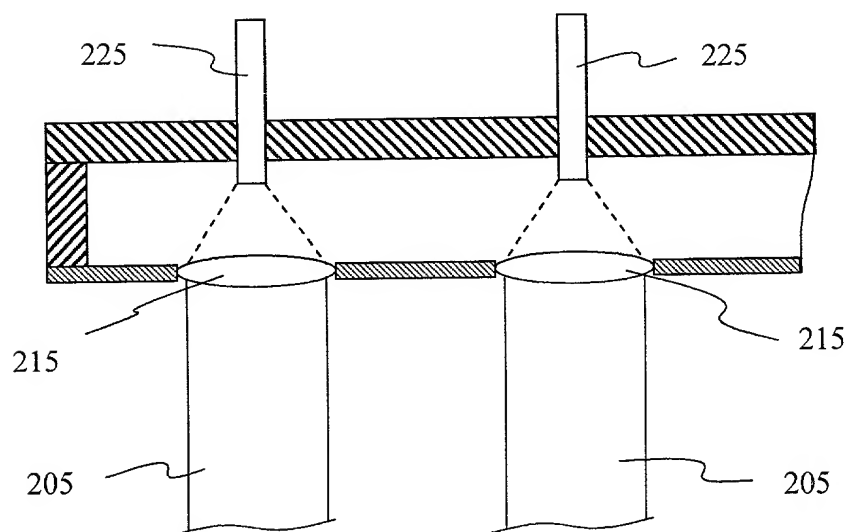


FIG. 2

## Optical Controller Lenslet Array



**FIG. 3**



**FIG. 4**

# MEMS Array

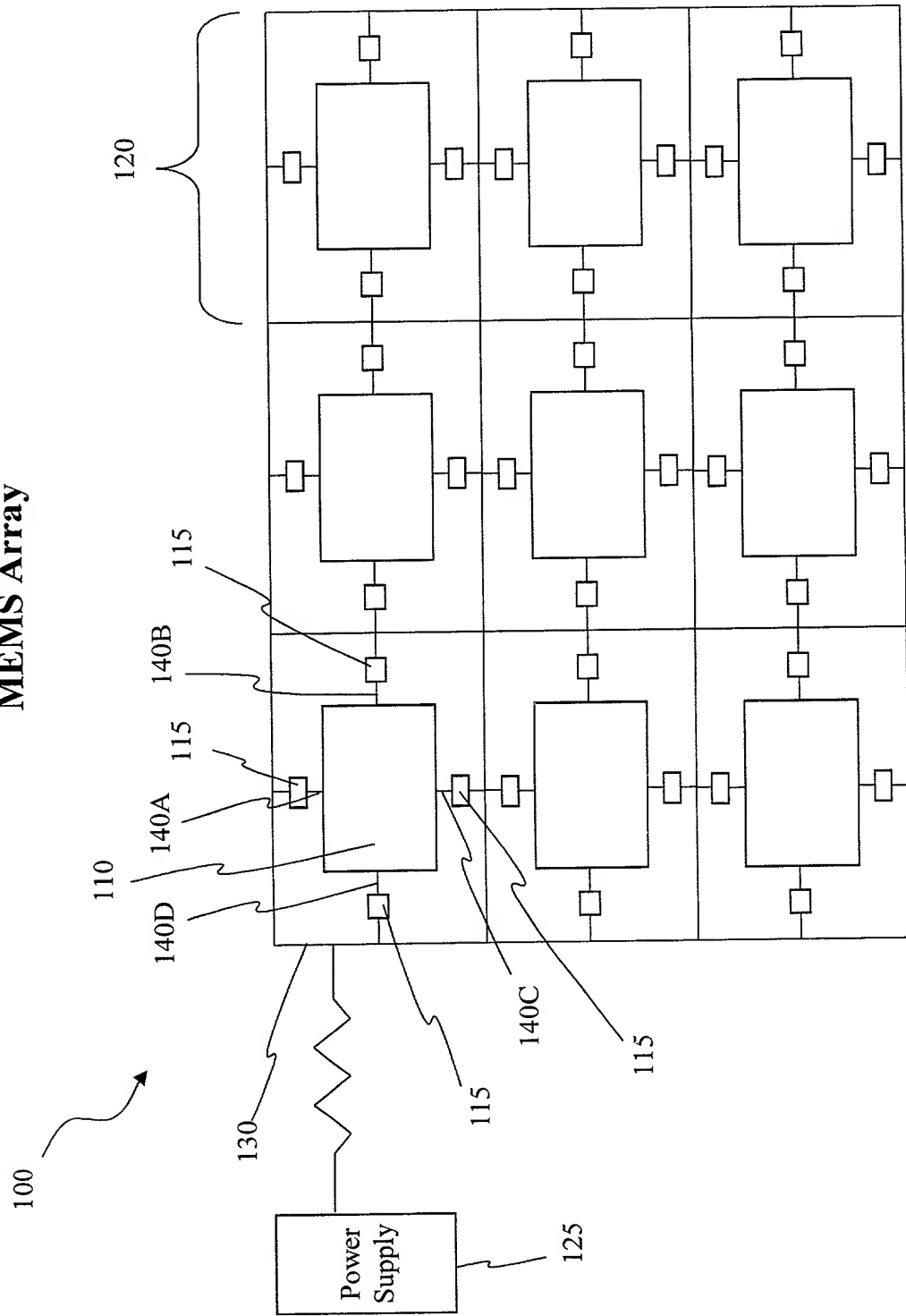
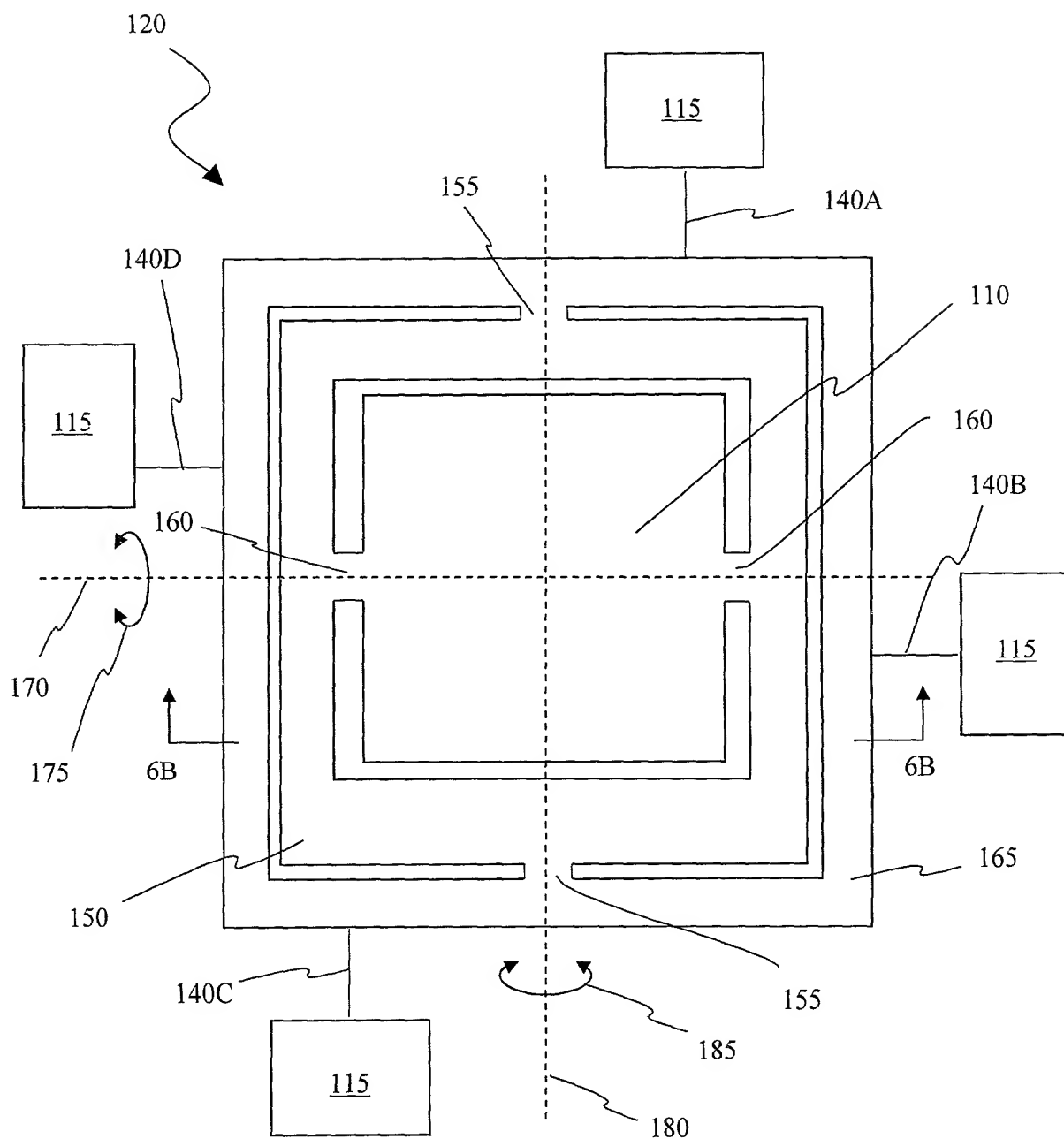


FIG. 5

# Top View of Individual Mirror Unit



**FIG. 6A**

# Side View of Individual Mirror Unit

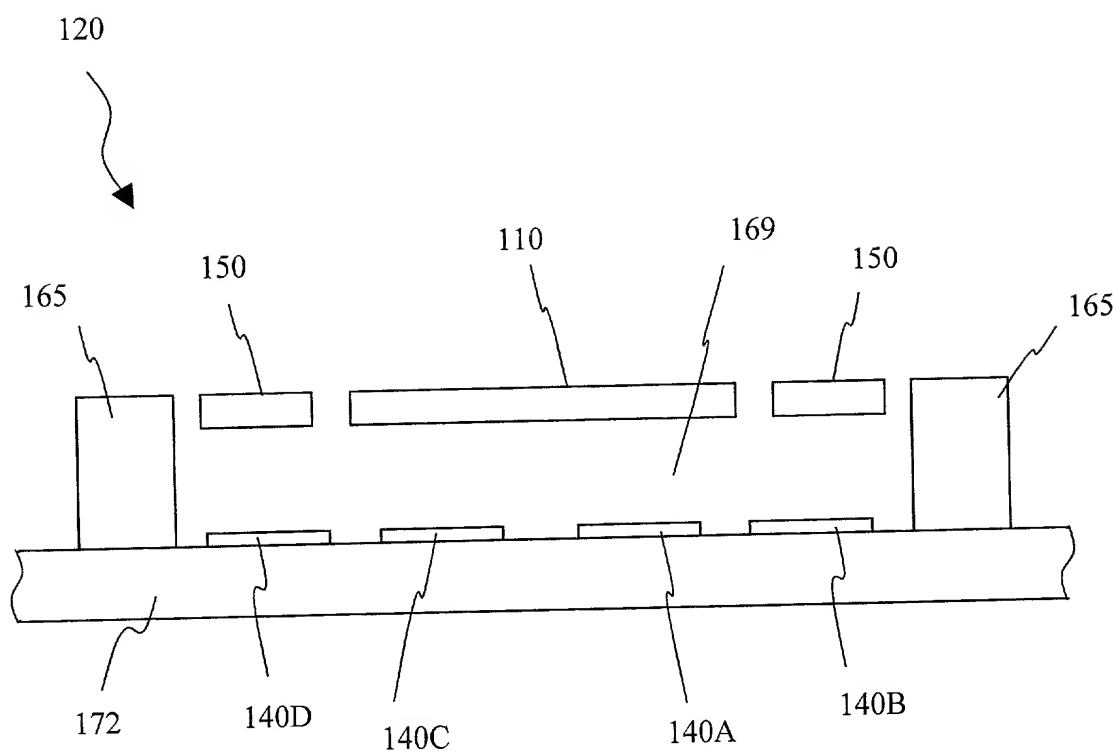
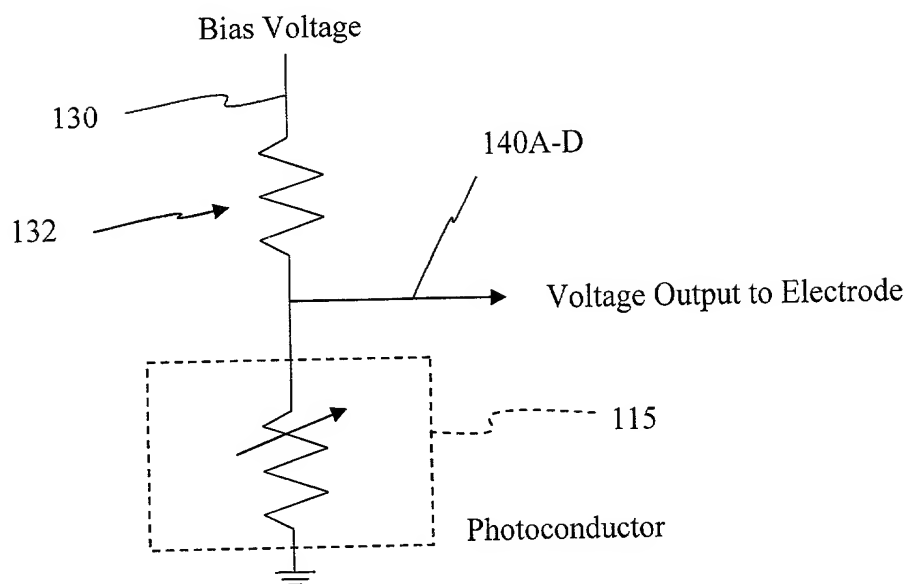
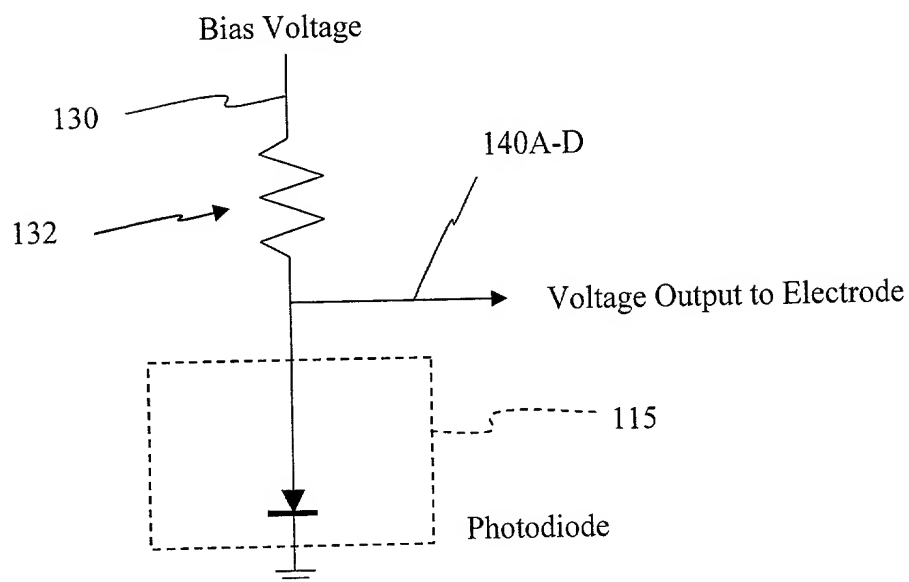


FIG. 6B

## Exemplary Sensor Voltage Circuits



**FIG. 6C**



**FIG. 6D**

## Optical Control of a MEMS

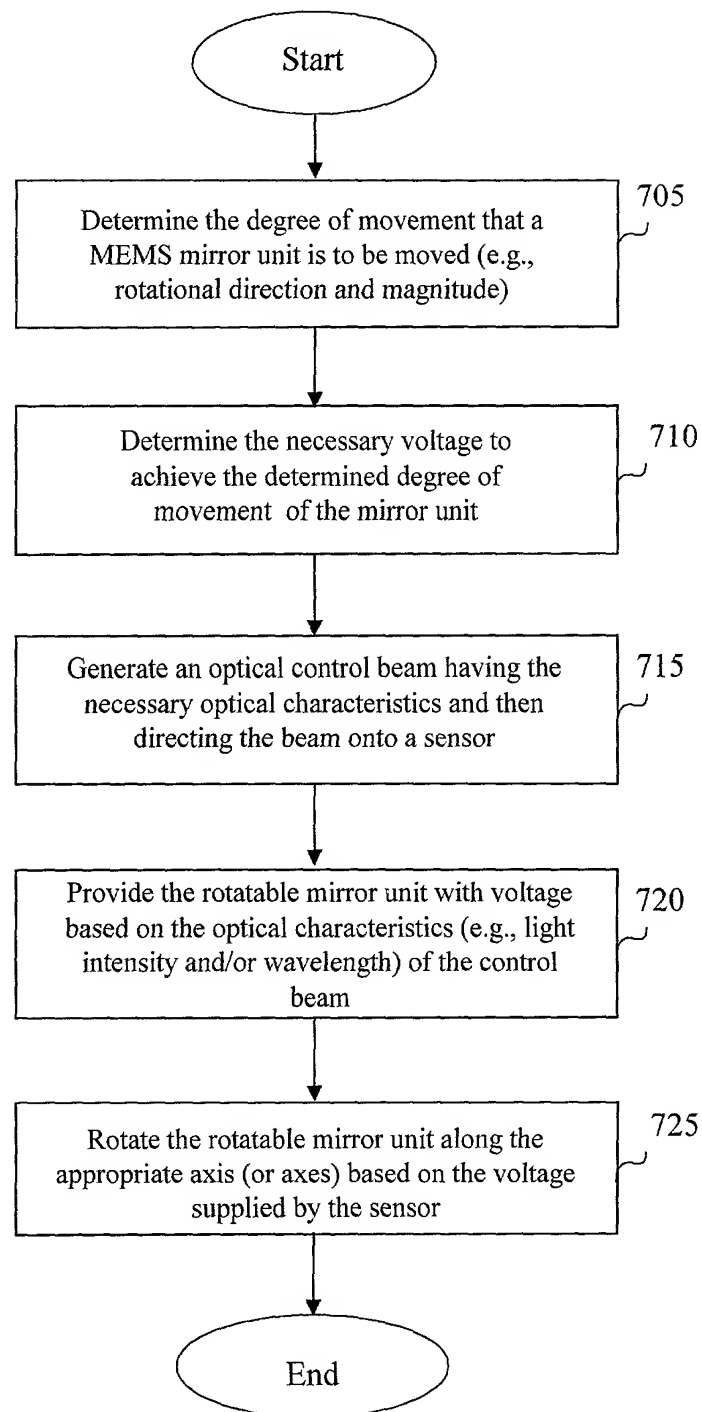


FIG. 7



# Optical Switch Having Multiple Optically Addressed MEMS

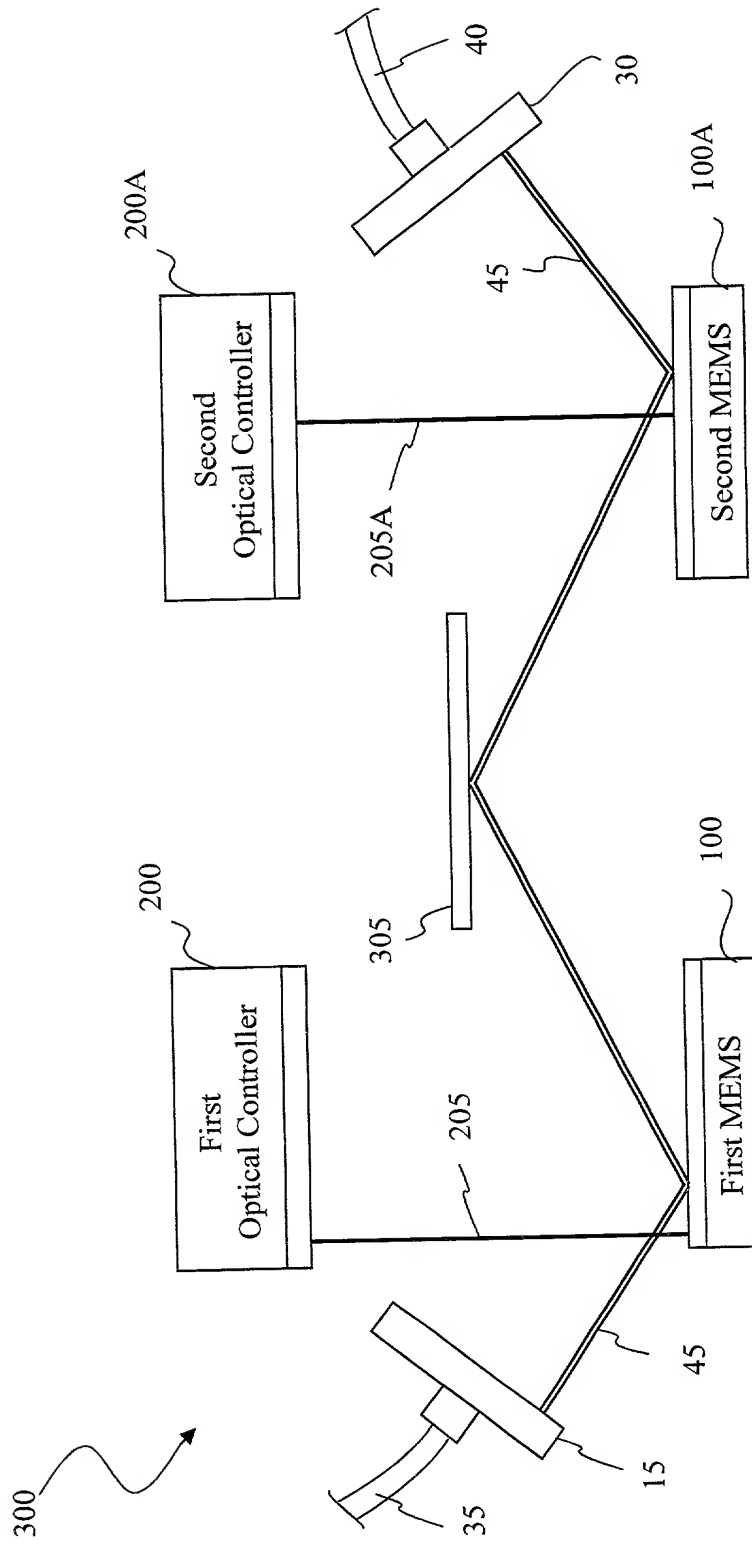


FIG. 8

# Optical Switch Having Multiple Optically Addressed MEMS

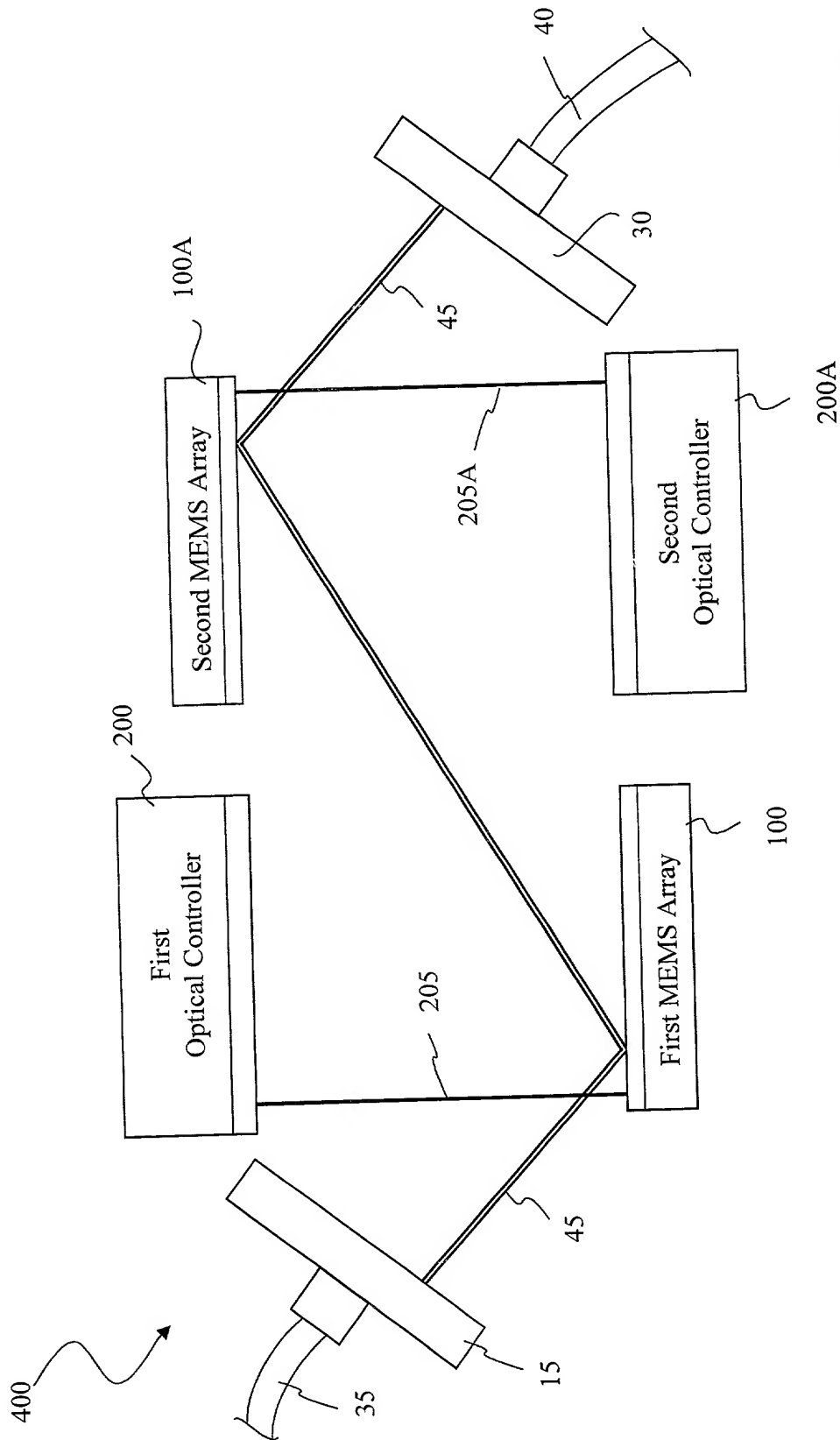


FIG. 9

# Optical Switch Utilizing An Alignment Beam And Having Multiple Optically Addressed MEMS

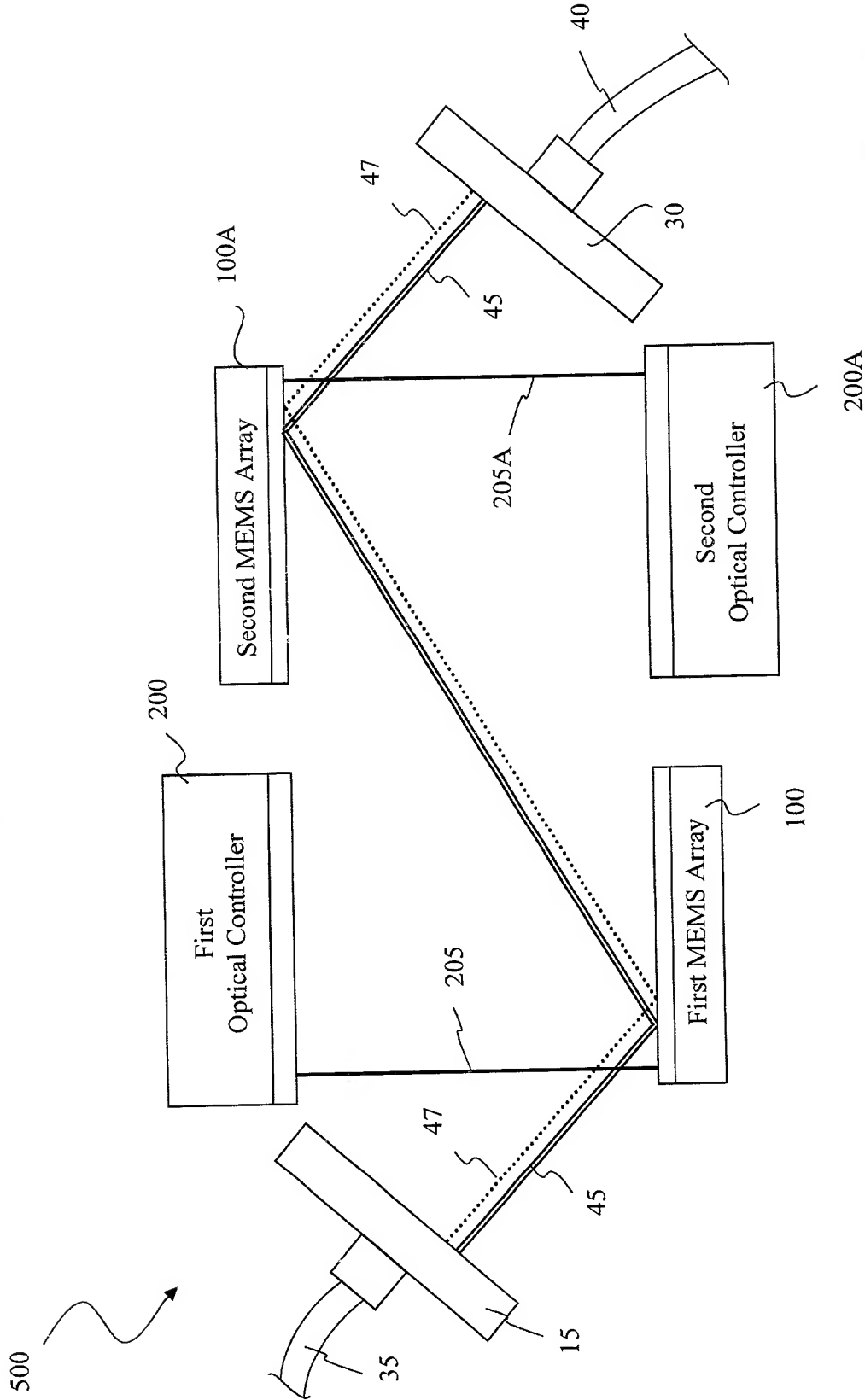
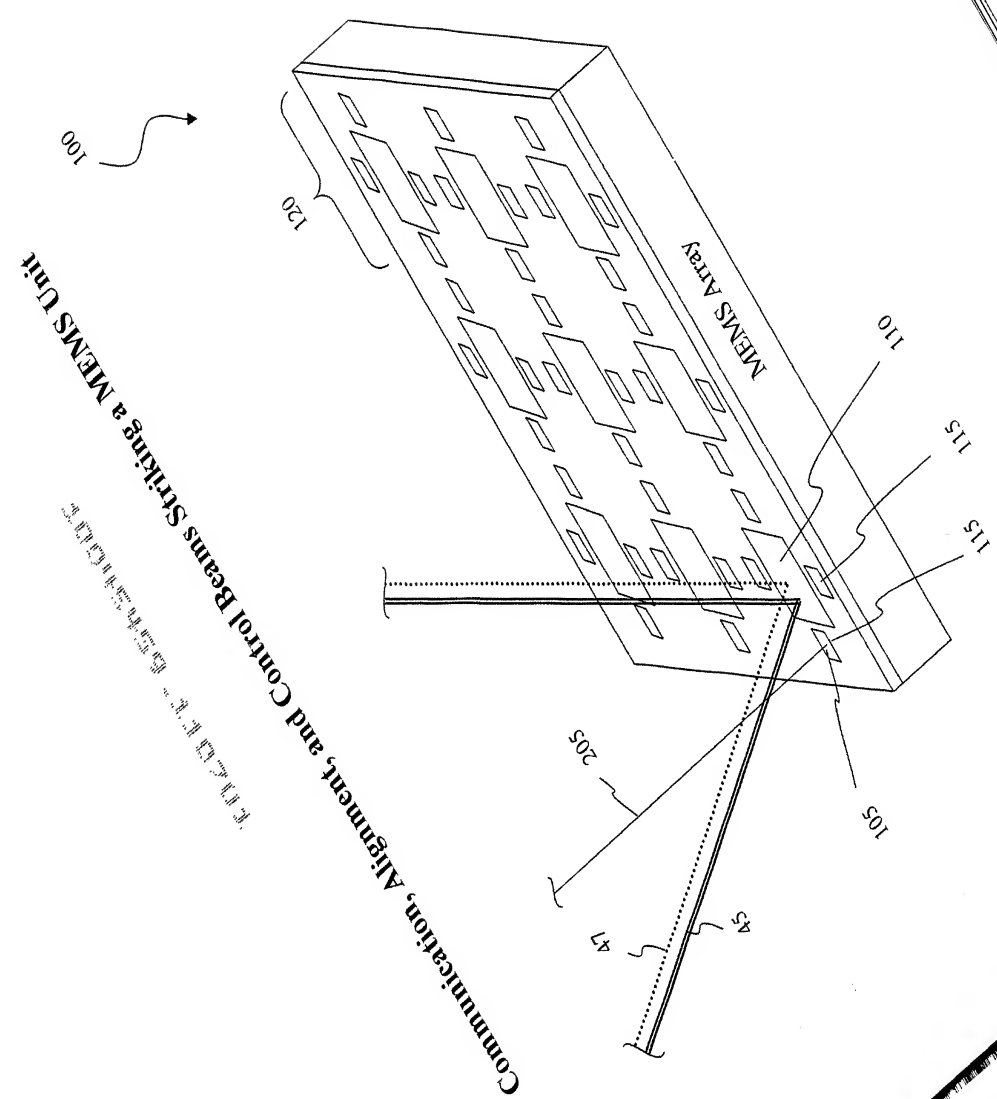


FIG. 10

FIG. 11



MEMS Array

Communication, Alignment, and Control Beams Striking a MEMS Unit

FIG. 11 - Perspective